

## **Khalid Sultan, PhD in Computer Engineering**

### **Publications:**

#### **Refereed Journals:**

- Mansouri, N., Sultan, K., Ahmad A., Alseadoon, I. & Alkhalil, A. (2022). A deep learning framework for covid-19 diagnosis from computed tomography. *Intelligent Automation & Soft Computing*, 34(2), 1247–1264. <https://www.techscience.com/iasc/v34n2/47634>
- Sultan K., Bentahar J., Yahyaoui H., Mizouni R., (2021) Model checking agent-based communities against uncertain group commitments and knowledge. *Expert Systems with Applications*, Volume 177, 114792. <https://doi.org/10.1016/j.eswa.2021.114792>
- Ahmad A., Alkhalil A., Altamimi A. B., Sultan K., Khan W., (2021), Modernising Legacy Software as Context-sensitive and Portable Mobile-enabled Application, *IT Professional*, IEEE, 25(1), 42-50
- Alseadoon, I., Ahmad, A., Alkalel, A., Sultan, K. (2021). Migration of Existing Software Systems to Mobile Computing Platforms: A Systematic Mapping Study, *Frontiers of Computer Science*, 15, 152204. <https://doi.org/10.1007/s11704-019-8166-5>
- Alreshidi A., Ahmad A., Altamimi A. B., Sultan K., Mehmood R. (2019). Software Architecture for Mobile Cloud Computing Systems, *Future Internet*, 11(11), 238. <https://doi.org/10.3390/fi11110238>
- Khan, W., Ullah, H., Ahmad, A., Sultan, K., Alzahrani, A., ... Abdulaziz, S. (2018). CrashSafe: A Formal Model for Proving Crash-Safety of Android Applications", *Human-centric Computing and Information Sciences*, 8:21. <https://doi.org/10.1186/s13673-018-0144-7>
- Al-Saqqar, F., Bentahar, J., Sultan, K. (2016). On the Applicability, Soundness, and Completeness of the Logic of Knowledge and Communicative Commitments in Multi-Agent Systems, *Expert Systems with Applications*, 43, 223 - 236. <https://doi.org/10.1016/j.eswa.2015.08.019>
- Marey, O., Bentahar, I., Khosrowshahi Asl, E. Sultan, K., Dssouli, R. (2015). Decision Making under Subjective Uncertainty in Argumentation-Based Negotiation. *Ambient Intelligence and Humanized Computing*, 6(3), 307-323. <https://doi.org/10.1007/s12652-015-0265-z>
- Al-Saqqar, F., Bentahar, J., Sultan, K., Wan, W., Khosrowshahi Asl, E. (2015). Model Checking Temporal Knowledge and Commitments in Multi-Agent Systems Using Reduction, Simulation Modeling Practice and Theory, 51, 45 – 68. <https://doi.org/10.1016/j.simpac.2014.11.003>
- Sultan, K., Bentahar, J., El-Menshawy, M. (2014). Model Checking Probabilistic Social Commitments for Intelligent Agent Communication, *Applied Soft Computing*, 22, 397– 409. <https://doi.org/10.1016/j.asoc.2014.04.014>
- Sultan, K., Bentahar, J., Wan, W., Al-Saqqar, F. (2014). Modeling and Verifying Probabilistic Multi-Agent Systems using Knowledge and Social Commitments, *Expert Systems with Applications*, 41(14), 6291–6304. <https://doi.org/10.1016/j.eswa.2014.04.008>
- Al-Saqqar, F., Bentahar, J., Sultan, K., El-Menshawy. M. (2014). On the Interaction between Knowledge and Social Commitments in Multi-Agent Systems, *Applied Intelligence*, 41(1), 235–259. <https://doi.org/10.1007/s10489-013-0513-x>

**Conferences:**

- Abu Doush, I., Sultan, K. (2022). Can I Learn During COVID-19: Web Accessibility of Children Learning Resources? The Computer Applications & Technological Solutions (CATS 2022). 1-5
- Ahmad, A., Alseadoon, I., Alkalel, A., Sultan, K. (2019). A Framework for the Evolution of Legacy Software Towards Context-aware and Portable Mobile Computing Applications, In the Proc. of SERP'19 Conference of Software Engineering Research and Practice, Las Vegas, Nevada, USA (July 29-August 01, 2019), pp 3-9.
- Mbarki, M., Marey, O., Bentahar, J., Sultan, K. (2014). Agent Types and Adaptive Negotiation Strategies in Argumentation-Based Negotiation", In the Proc. of the 26th International Conference on Tools with Artificial Intelligence (ICTAI), Limassol, Cyprus (November 10-12, 2014), pp 485-492.
- Sultan. K., Bentahar, J., Marey, O. (2014). A Probabilistic Logic to Reason about the Interaction between Knowledge and Social Commitments in MASs, In the Proc. of the 13th International Conference on Intelligent Software Methodologies, Tools, and Techniques (SoMet\_14), Langkawi, Malaysia (September 22-24, 2014), pp 132-147.
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- Sultan, K., En-Nouaary, A., Hamou-Lhadj, A. (2008). Catalog of Metrics for Assessing Security Risks of Software throughout the Software Development Life Cycle, In the Proc. of the 2nd IEEE International Conference on Information Security and Assurance (ISA\_08), Busan, Republic of Korea (April 24-26, 2008), pp 461-465.
- Hamou-Lhadj, A., En-Nouaary, A., Sultan, K (2007). Reverse Engineering of Web Based Systems, In the Proc. of the 4th IEEE International Conference on Innovations in Information Technology, Dubai, UAE (November 18-20, 2007), pp193-197.